

OPERATING INSTRUCTIONS

2.4GHz Wireless
Camera Kit

Model: 856SG



Please read this manual carefully and thoroughly before any attempt to install and operate this product and retain it for your future reference.

WIRELESS CAMERA KIT 01

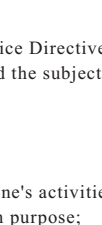
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WIRELESS CAMERA KIT 02

EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



INTRODUCTION

Thank you for purchasing this wireless camera kit. This product works at ISM-2.4GHz frequency band, which could be legally used worldwide without permission. We feel confident that you will be pleased with the quality and features of this product.

The camera features one CMOS image sensor and a transmitting module to capture the image and transmit them wirelessly.

The receiver features a receiving module to receive and output AV signals.

Notice

Notice: This product may cause interferences with other wireless equipment that operates at 2.4GHz ISM band. Please turn off one of the equipments to eliminate the interference.

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Product Assurance: This camera will emit electromagnetic wave, just like other wireless products. But its transmitting power is less than other wireless products. But its transmitting power is less than other wireless products such as mobile phones. The 2.4GHz wireless meets wireless frequency security standards and recommended indexes while working. These standards and indexes are certified by academic organization and represent the cognitive research of the scientific workers who continuously explore and annotate the involved fields. So we believe that our products are safe for customers.

Approval Information

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

FCC
1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed or used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by following measures:

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-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and the receiver.

-connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation changes and modification not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

CE

This product complies with standards including Low Voltage Device Directive 73/23/EEC; EMC Directive 89/336/EEC and R&TTE Directive 1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear CE mark.

Restrictions

1. DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for such purpose;

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2. DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment. So this product should be placed at least 1 feet away from any heart pacemaker. Radio waves might potentially influence heart pacemaker and lead to respiratory disturbance;

3. DO NOT use this product for any illegal activities. We shall not be responsible for any consequences of illegal acts committed by the user.

Maintenance

1. Ensure the sufficient ventilation space is available;

2. Do not shake or strike the product;

3. Keep it dry and dustless and avoid exposing it to direct sunlight;

4. Do not place product near any magnetic objects;

5. Avoid putting the product in places where the constantly changed temperature or humidity occurs;

6. Keep product away from heat sources such as electric heater;

7. Do not use the camera near aggressive chemicals;

8. Do not use the camera in the places which are enclosed by metal. The surrounding metal like lifter, cabin, may shield the electromagnetic wave, and result in failure of signal reception;

9. Please obey the local government's environment protection policy;

10. Please turn off the power when left unused;

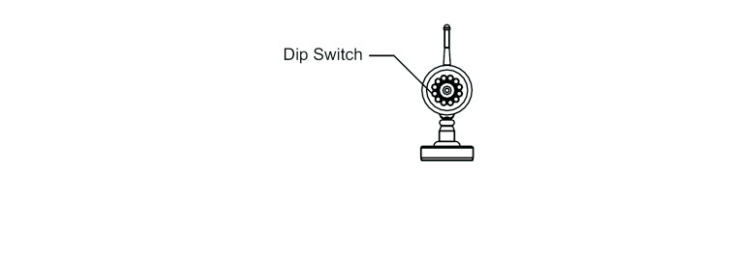
11. Do not disassemble or repair the camera or receiver; doing so might cause damages to the product.

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PRODUCT

Package Contents

This package contains with the following items. Please check whether they are all included in the packaging box, if one or some is missing, contact the retailer for replacement.



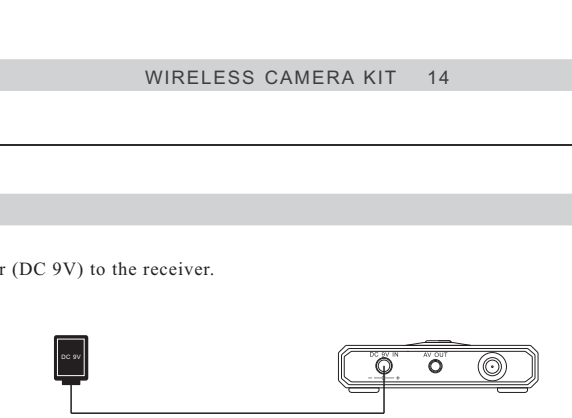
Note:

The pictures may vary from the actual objects.

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Structure Discription

1.Camera



2.Receiver



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Adapter

This product always conforms to the authenticated AC adapter. The adapter should be marked one of the following:



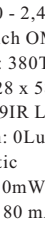
UL Mark
American power supply authentication



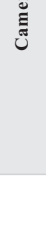
SAA Mark
Australia power supply authentication



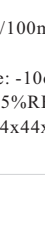
CE Mark
European Union power supply authentication



PSE Mark
Japan power supply authentication



GS Mark
German power supply authentication



CCC Mark
China power supply authentication

Note:

When using the power adapter, make sure the rating voltage on it is compatible with that of the device to avoid potential damages resulting from incorrect usage of power supply.

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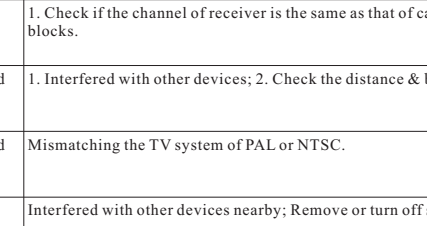
INSTALLATION & USAGE

Camera Installation

1. Fix the camera to a position and then adjust it to a suitable angle.



2. Connect the adapter to the camera.



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Fix the Camera

Please follow the steps below if you want to fix the camera on wall or ceiling.

1.Fix to Wall

1.1 Drill holes on the mounting surface according to holes in the universal bracket; Insert screw anchors into the holes.

1.2 Align holes in bracket and the mounting surface, drive screws through the bracket into the anchors.

1.3 Adjust the angle of the camera.



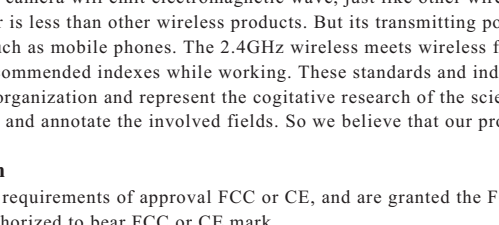
WIRELESS CAMERAKIT 11

2.Fix to Ceiling

2.1 Insert the mounting anchor to ceiling after drill holes according to holes in the bracket;

2.2 Locate the camera with screws.

2.3 Adjust the angle of the camera for surveillance.

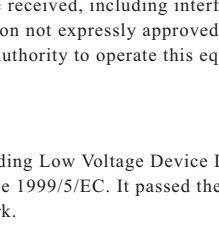


Note :For better adjusting the angle while fixing the camera on the ceiling ,you are recommended to screw the bracket onto the hole near the antenna.

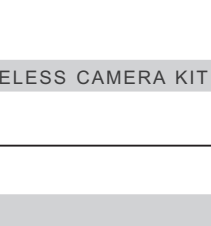
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Camera Channel Setup

1. Remove the front cover by channel. The channel dip switch is close to the IR lights.



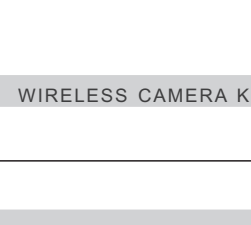
2. Use Channel Pick to adjust the turning it counter-clockwise.



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Receiver Installation

1. Connect the antenna to the receiver.

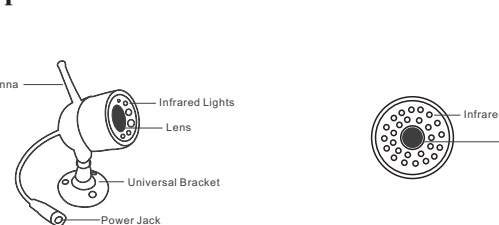


2. Connect the receiver to a monitor/TV with AV cable (yellow for video and red for audio).

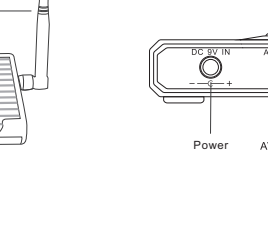


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3. Connect the adapter (DC 9V) to the receiver.



4. Power on the monitor/TV and select AV mode.



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5. Adjust the brightness, contrast and color of the monitor/TV for the perfect effect.



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Specification

Camera Specification	* Frequency: ISM 2,400 ~ 2,483MHz
	* Imaging Sensor: 1/3 inch OMNIVISION Color CMOS
	* Horizontal Resolution: 380TV Line
	* CMOS Total Pixels: 628 x 582 (PAL) / 510 x 492 (NTSC)
	* View Angles: Built-in 91R LED, 45 degrees
	* Minimum Illumination: 0Lux / F1.5
	* Gain Control: Automatic
	* Transmission Power: 10mW
	* Consumption Current: 80 mA
	* Modulation Mode: FM
	* Bandwidth: 18M
	* Operating Range: 30m/100m (Obstructed / Unobstructed)
	* Power: DC 5V
	* Operating Temperature: -10oC ~ +40oC

* Storage Temperature: -20℃ ~ +60℃ / -4°F ~ +140°F

* Operating Humidity: 85%RH

* Receiving Sensitivity: ≤-85dBm

* Video Output: 1Vp-p@75Ω,S/N>38dB

* Audio Output: 1Vp-p@600 ohm

* Power Adapter: DC 9V

* Dimension: 97x70x17mm

* Weight: 95g

* Antenna: 50ohm SMA

* Intermediate Frequency: 480MHz

* Frequency Stabilization: ± 100MHz

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Monitor Specification	* Transmission Frequency: ISM 2,400 MHz~2,483 MHz 4CH
	* Modulation Mode: FM
	* Unobstructed Effective Range: 100m(Without Block)
	* Operating Temperature: 0℃ ~ +50℃ / +32℉ ~ +122℉
	* Storage Temperature: -20℃ ~ +60℃ / -4℉ ~ +140℉
	* Operating Humidity: 85%RH
	* Receiving Sensitivity: ≤-85dBm
	* Video Output: 1Vp-p@75Ω,S/N>38dB
	* Audio Output: 1Vp-p@600 ohm
	* Power Adapter: DC 9V
	* Dimension: 97x70x17mm
	* Weight: 95g
	* Antenna: 50ohm SMA
	* Intermediate Frequency: 480MHz

* Frequency Stabilization: ± 100MHz

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TROUBLESHOOTING

When you experience the operation problems, please check and try the following yourself before claiming that it is the defective product or consulting the experienced technician.

Abnormal Phenomena		Possible Reasons/Solutions
No image	No sound	Check whether the camera/receiver is connected to power supply and powered on.
Snowflakes on image	Noisy	1. Check if the channel of receiver is the same as that of camera; 2. Check the distance & blocks.
Ghost image	Normal sound	1. Interfered with other devices; 2. Check the distance & blocks.
No color	Normal sound	Mismatching the TV system of PAL or NTSC.
Normal image	Noisy	Interfered with other devices nearby; Remove or turn off such devices.

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